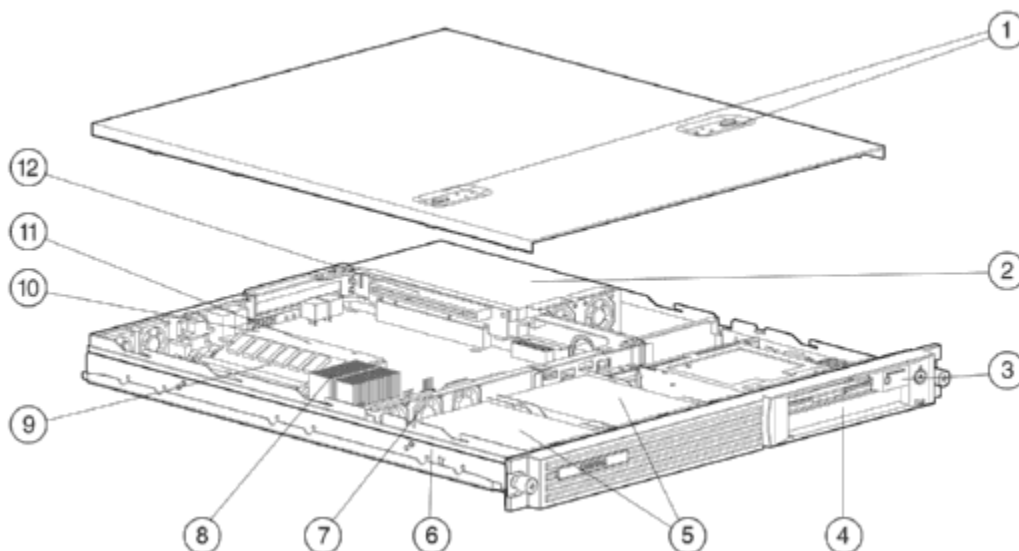


Overview

Compaq ProLiant DL320



- | | |
|---|---|
| 1. Thumb Tabs | 7. Fan |
| 2. Power Supply | 8. Processor (populated) |
| 3. LED Indicators | 9. DIMM Memory Slots (4 total) |
| 4. Removable CD-ROM/Diskette Drive Assembly (included in some models) | 10. Ultra ATA/100 Controller Module (ATA models) |
| 5. Two 3.5" x 1" ATA or SCSI non-hot plug drive bays | 11. Single Channel Wide Ultra2 SCSI Controller Module (SCSI models) |
| 6. Fixed Rails | 12. 64-bit/33-MHz PCI Slot |

At A Glance

- The ultra thin one-way server for deploying and managing Web-hosting environments at Internet speed
- Intel® Pentium III 1.26-GHz or FC-PGA (Flip Chip-Pin Grid Array) processor (single capability) with 512-KB or 256-KB level 2 ECC cache
- 1U Rack form factor (1.75")
- ServerWorks LE 3.0 Chipset with 133-MHz Front Side Bus
- 128-MB PC133-MHz Registered ECC SDRAM memory, expandable to 2 GB
- One full-length 64-bit/33-MHz PCI slot available
- Two Compaq NC3163 Fast Ethernet NICs Embedded 10/100 WOL (Wake On LAN)
- Integrated Ultra ATA/100 Controller Module (ATA models)
- Integrated Single Channel Wide Ultra2 SCSI Controller Module (SCSI models)
- Internal storage capacity of up to 72.8 GB in SCSI Models (2 x 36.4 GB 1" SCSI Non-Hot Plug Drives)
- Internal storage capacity of up to 160 GB in ATA Models (2 x 80 GB 1" ATA/100 Non-Hot Plug Drives)
- 180-Watt PFC Power Supply
- Front and Rear Unit Identification switches (UID)
- Exceptional serviceability with optional sliding rails, cable management and in-rack toolless service ability access
- Dual Peer PCI Bus Architecture for concurrent memory and processor access from PCI buses
- Automatic Server Recovery (ASR), Compaq Insight Manager and SmartStart
- Protected by HP Services, including a three-year parts, one-year labor, one-year, on-site service, Next Business Day –limited, global warranty and extended, Pre-Failure Warranty which covers processors, memory, and hard drives — Certain restrictions and exclusions apply. Consult the Customer Support Center at 1-800-345-1518 for details.

Standard Features

Processor	Intel Pentium III 1.26-GHz (FC-PGA) Processor		
Chipset	ServerWorks LE 3.0 Chipset with 133-MHz Front Side Bus NOTE: For more information regarding ServerWorks, please see the following URL: http://www.serverworks.com/products/overview.html		
Memory	Standard	128 MB (PC133-MHz Registered ECC SDRAM memory)	
	Maximum	2 GB	
Network Controller	Two HP NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)		
Expansion Slots	I/O (1 Total, 1 available)		PCI Voltage:
	64-bit/33 MHz PCI	1	3.3 Volt or universal cards
Storage Controllers	Integrated Ultra ATA/100 Controller Module (ATA models)		
<i>One of the following, depending on model</i>	Integrated Single Channel Wide Ultra2 SCSI Controller Module (SCSI models)		
Storage	Diskette Drives	1.44 MB (included in some models) NOTE: CD-ROM/Diskette Drive Assembly Option Kit 212691-B21 and DVD-ROM/Diskette Option Kit 268494-B21 are available	
	CD-ROM	24x IDE (ATAPI) Low-Profile CD-ROM Drive (included in some models) NOTE: CD-ROM/Diskette Drive Assembly Option Kit 212691-B21 and DVD-ROM/Diskette Option Kit 268494-B21 are available	
	Hard Drives	One of the following: (depending on model) None 18.2-GB Wide Ultra3 SCSI 10,000 rpm non-hot plug 1"drive 40-GB ATA drive (1.26GHz and 1.13 GHz Model)	
	Maximum Internal Storage	One of the following: (depending on model) 72.8 GB (2 x 36.4-GB Wide Ultra3 SCSI 10,000 rpm non-hot plug 1"drives) 160 GB (2 x 80-GB Ultra ATA/100 7,200 rpm non-hot plug 1"drives)	
Interfaces	Serial	1	
	USB	2 NOTE: Please see the following URL for additional information regarding USB support: http://www.compaq.com/products/servers/platforms/usb-support.html	
	Graphics	1	
	Keyboard	1	
	Mouse	1	
	Network RJ-45	2	

Standard Features

Graphics Integrated ATI RAGE XL Video Controller with 8-MB SDRAM Video Memory

Form Factor Rack (1U), (1.75 in/4.45 cm)

Product Demo To view the Product Demo, please see the following URL, then click on "PRODUCT DEMO":
<http://www5.compaq.com/products/servers/ProLiantdl320/index.html>

ProLiant Essentials Foundation Pack Software

Insight Manager 7 Insight Manager 7 helps maximize system uptime and performance and reduces the cost of maintaining the IT infrastructure by providing proactive notification of problems before those problems result in costly downtime and reduced productivity. Insight Manager 7 is easy to set up and provides rapid access to detailed fault and performance information gathered by the Management Agents. One-click access to the Integrated Lights-Out or Remote Insight Lights Out Edition board allows systems administrators to take full graphical control of ProLiant servers in remote locations or lights-out data centers. Finally, Insight Manager 7 in concert with the Version Control Agents and Version Control Repository Manager enables systems administrators to version manage and update system software across groups of ProLiant servers.

SmartStart SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Web site at <http://www.hp.com/servers/smartstart>.
SmartStart version supported (minimum): SmartStart 5.30.

Management Agents The Management Agents form the foundation for HP's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into HP servers, workstations, desktops, and portables, and send alerts to Insight Manager 7 and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HP, please visit the management Web site at <http://www.hp.com/servers/manage>.

ActiveUpdate Active Update is a web-based application that keeps IT managers directly connected to HP for proactive notification and delivery of the latest software updates.

ROMPaq, support software, and configuration utilities The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options.

Survey Utility and diagnostics utilities The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips.

Standard Features

Optional ProLiant Essentials Value Packs

Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs:

- Rapid Deployment Pack – an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands.
- Workload Management Pack – provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server.
- Performance Management Pack – a performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources.

NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to <http://www.hp.com/servers/proliantessentials> or the various ProLiant Essentials Value Pack product QuickSpecs for more information.

NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: <http://www.hp.com/servers/proliantessentials>

Industry Standard Compliance

PCI 2.2 Compliant
PXE Support
WOL Support
Microsoft® Logo certifications
USB 1.1

Intelligent Manageability

Automatic Server Recovery (ASR)
Remote Insight Lights-Out Edition (optional)
Insight Manager 7
Integrated Management Log
Revision History Table
Automatic Revision Tracking
Drive Parameter Tracking (with Smart Array Controllers)
Dynamic Sector Repairing (with Smart Array Controllers)
Pre-Failure Warranty (covers processors, hard drives and memory)

Security

Power-on password
Keyboard password
Diskette drive control
Diskette boot control
Network Server Mode
Removable CD-ROM/Diskette Drive Assembly
Serial interface control
Administrator's password
Disk configuration lock

Standard Features

Server Power Cords	North America:	One Lowline and one Highline (IEC-IEC) power cord ships standard.
	Japan:	One IEC (Highline) and one Lowline power cord ships standard.
	ROW	One Highline (IEC) power cord ships standard

Power Supply	Auto-sensing 180-Watt PFC Power Supply, CE Mark Compliant
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System Fans	5 fans ship standard. 5 total supported internally
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Ultra Thin Rack Deployment Overview	For the Ultra Thin Rack Deployment Overview, including best practices for the HP ProLiant DL320, please see the following URL: http://www.hp.com/products/servers/ProLiantdl320/ .
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Required Cabling	For required cabling information, refer to the HP Web site at: http://www.hp.com/products/servers/ProLiantdl320/ .
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OS Support	Microsoft Windows NT® Server Microsoft Windows 2000 Server Sun Solaris Intel Platform Edition (NOTE: Sun Solaris is not currently supported on the ProLiant DL320 ATA Models.) Linux Red Hat, SuSE, TurboLinux Server, Caldera eServer) NOTE: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix at: ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf . NOTE: For an up-to-date listing of the latest drivers available for the HP ProLiant DL320, please see: http://www.compaq.com/support/files/server/us/index.html .
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Rack Airflow Requirements	<ul style="list-style-type: none">● Rack 9000 and 10000 series Cabinets The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The HP 9000 Series Rack and the new 10000 Series Rack provides enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.● Rack 7000 series Cabinets When installing a server with processors running at speeds of 550 MHz or greater in HP Rack 7000 series racks with glass doors (165753-001 (42U), and 163747-001 (22U)), the new processor technology requires the installation of HP's new High Airflow Rack Door Inserts (327281-B21) (42U), 327281-B22 (42U 6 pack), or 157847-B21 (22U)) to promote enhanced airflow for maximum cooling.
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CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- **Front and rear doors:** If your 42U server rack includes closing front and rear doors, you must allow 5,350 sq cm (830 square inches) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- **Side:** The clearance between the installed rack component and the side panels of the rack must be a minimum of 7 cm (2.75 inches)

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

Standard Features

NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: <http://www5.compaq.com/products/servers/ProLiantDL320/index.html>

Service and Support

HP Services provides a three-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a worldwide network of resellers and service providers. HP technical assistance is available 7 x 24, toll free in the United States and Canada. Telephone support services may be covered under warranty or available for an additional fee.

NOTE: Limited Warranty includes 3 year Parts, 1 year Labor, 1-year on-site support.

A full range of HP Care Pack packaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

NOTE: For more information, customer/resellers can contact <http://www.hp.com/hps/>.

Please see the following URL regarding Warranty Information For Your HP Products:

<http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

For additional information regarding Worldwide Limited Warranty and Technical Support, please see the following URL:

<ftp://ftp.compaq.com/pub/supportinformation/ejourney/176738.pdf>

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center at 1-800-345-1518 for details.

Models

DL320R01 P1266-512 KB, 128 MB, SCSI 18.2 GB with CD/Floppy 254823-xx2	Processor	Intel Pentium III 1.266-GHz (FC-PGA) Processor standard
	Cache Memory	512-KB level 2 ECC cache
	Memory	128-MB (Standard) to 2-GB (Maximum) PC133-MHz Registered ECC SDRAM
	Network Controller	Two HP NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
	Storage Controller	Integrated Single Channel Wide Ultra2 SCSI Controller Module
	Hard Drive	One 18.2-GB Wide Ultra3 SCSI 10,000 rpm non-hot plug 1" drive
	Internal Storage	72.8-GB maximum (with optional hard drives)
	Optical Drive	24x IDE (ATAPI) CD-ROM Drive (Low-Profile)
	Diskette Drive	1.44-MB Floppy
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

DL320R01 P1266-512 KB, 128 MB, SCSI without CD/Floppy 254823-xx1	Processor	Intel Pentium III 1.266-GHz (FC-PGA) Processor standard
	Cache Memory	512-KB level 2 ECC cache
	Memory	128-MB (Standard) to 2-GB (Maximum) PC133-MHz Registered ECC SDRAM
	Network Controller	Two HP NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
	Storage Controller	Integrated Single Channel Wide Ultra2 SCSI Controller Module
	Hard Drive	None ship standard
	Internal Storage	72.8-GB maximum (with optional hard drives)
	Optical Drive	Optional
	Diskette Drive	Optional
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

DL320R01 P1266-512 KB, 128 MB, ATA 40 GB with CD/Floppy 254824-xx2	Processor	Intel Pentium III 1.266-GHz (FC-PGA) Processor standard
	Cache Memory	512-KB level 2 ECC cache
	Memory	128-MB (Standard) to 2-GB (Maximum) PC133-MHz Registered ECC SDRAM
	Network Controller	Two HP NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
	Storage Controller	Integrated Ultra ATA/100 Controller Module
	Hard Drive	One 40-GB Ultra ATA/100 7,200 rpm non-hot plug 1" drive
	Internal Storage	160-GB maximum (with optional hard drives)
	Optical Drive	24x IDE (ATAPI) CD-ROM Drive (Low-Profile)
	Diskette Drive	1.44 MB Floppy
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

Models

**DL320R01 P1266-512
KB, 128 MB, ATA
without CD/Floppy
254824-xx1**

Processor	Intel Pentium III 1.266-GHz (FC-PGA) Processor standard
Cache Memory	512-KB level 2 ECC cache
Memory	128-MB (Standard) to 2-GB (Maximum) PC133-MHz Registered ECC SDRAM
Network Controller	Two HP NC3163 Fast Ethernet NIC (embedded) PCI 10/100 WOL (Wake On LAN)
Storage Controller	Integrated Ultra ATA/100 Controller Module
Hard Drive	None ship standard
Internal Storage	160-GB maximum (with optional hard drives)
Optical Drive	Optional
Diskette Drive	Optional
Form Factor	Rack (1U), (1.75 in/4.45 cm)

Country Code Key	XX=00	NA
	XX=29	Japan
	XX=37	APD
	XX=42	EURO
	XX=AA	PRC

Options

ProLiant DL320 Unique Options	ProLiant DL320 Wide Ultra3 SCSI Cable Option Kit	212690-B21
ProLiant Essentials Value Pack Software	Rapid Deployment Pack, 1 User, V1.x NOTE: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-B21
	Rapid Deployment Pack, 1 User, V1.x (Japan) NOTE: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-B21
	Rapid Deployment Pack, 10 Users, V1.x NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-B21
	Rapid Deployment Pack, 10 Users, V1.x (Japan) NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-291
	ProLiant Essentials Workload Management Pack (Featuring Resource Partitioning Manager version 2.0)	303284-B21
	ProLiant Essentials Performance Management Pack v2.0, Single License NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information. NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials	306696-B21
Software	HP digital asset protection	302316-001
Software - Secured Solutions	InterScan/Immunix Secured Solution for HP ProLiant servers	307039-B21
NetServer to ProLiant integrations services	HP NetServer to ProLiant integration and assessment service NOTE: HP identifies current levels of NetServer support, services, and management. This service helps maximize customer's ability to add ProLiant platforms into their current environment.	304164-002
	HP TopTools to Insight Manager 7 installation and startup service NOTE: Provides on-site review, installation and configuration services for Insight Manager 7. HP will also re-create, as closely as possible, the views and reports from the customer's current TopTools configuration. This service assures a smooth transition to the ProLiant Essentials software.	304163-002
	HP NetServer to ProLiant Essentials Rapid Deployment Pack installation and startup service NOTE: Install and configure Rapid Deployment Pack in a test environment, then deploy a server image to a maximum of 250 systems in the production environment. This service helps to assure successful system deployment.	304162-002

Options

Memory (DIMMs)	512-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128279-B21
	256-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128278-B21
	128-MB PC133-MHz Registered ECC SDRAM DIMM Memory Option Kit	128277-B21
Internal Storage	CD-ROM/Diskette Drive Assembly Option Kit	212691-B21
	DVD-ROM/Diskette Drive Assembly Option Kit	268494-B21
	ProLiant DL320 Wide Ultra3 SCSI Cable Option Kit	212690-B21
Hard Drives	Ultra 320 SCSI – Non-Hot Plug	
	36.4GB 10,000 rpm, U320 Non-Hot Plug Hard Drive, 1"	271832-B21
	NOTE: All U320 Universal Hard Drives are backward compatible to U2 or U3 speeds. U320 drives require an optional U320 Smart Array Controller or U320 SCSI HBA to support U320 transfer rates.	
	ATA/100 - Non-Hot Plug	
	80-GB ATA/100 7,200 rpm Drive (1")	278424-B21
	40-GB ATA/100 7,200 rpm Drive (1")	230534-B21
	NOTE: Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:	
	U320 Hard Drive QS: http://www5.compaq.com/products/quickspecs/11531_div/11531_div.HTML (Worldwide)	
	http://www5.compaq.com/products/quickspecs/11531_na/11531_na.HTML (North America)	
	ATA100 Hard Drive QS: http://www5.compaq.com/products/quickspecs/11361_div/11361_div.HTML (Worldwide)	
http://www5.compaq.com/products/quickspecs/11361_na/11361_na.HTML (North America)		
Storage Controllers	Smart Array 532 Controller	225338-B21
	NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.	
	Smart Array 532 Controller (Japan)	225338-291
	NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.	
	Compaq RAID LC2 Controller	188044-B21
	NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.	
Compaq RAID LC2 Controller (Japan)	188044-291	
NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.		
Smart Array 5302/128 Controller	283552-B21	
NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.		

Options

Smart Array 5302/128 Controller (Japan) NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.	283552-291
Smart Array 5304/256 Controller NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.	283551-B21
Smart Array 5304/256 Controller (Japan) NOTE: Supports Wide Ultra2/3 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21.	283551-291
Ultra3 Channel Expansion Module for Smart Array 5300 Controller	153507-B21
128-MB Cache Module for Smart Array 5302 Controller	153506-B21
256-MB Battery-Back Cache Module NOTE: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, MSA 1000 and the Smart Array Cluster Storage.	254786-B21
Advanced Data Guarding Module for Smart Array 5302 Controller	199371-B21
RAID ADG Upgrade for Smart Array 5302	288601-B21
64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter NOTE: Supports Wide Ultra3, Ultra320 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21. NOTE: This adapter will run at 33-MHz speeds due to the 33-MHz PCI Bus.	154457-B21
64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter NOTE: Supports Wide Ultra3, Ultra320 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21. NOTE: This adapter will run at 33-MHz speeds due to the 33-MHz PCI Bus.	129803-B21
64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter NOTE: Supports Wide Ultra3, Ultra320 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21. NOTE: This adapter will run at 33-MHz speeds due to the 33-MHz PCI Bus.	268351-B21
64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS NOTE: Supports Wide Ultra3, Ultra320 SCSI drives only. If cabling to internal drives, you must first remove the integrated controller module. ATA models require the Wide Ultra3 SCSI cable option kit 212690-B21. NOTE: This adapter will run at 33-MHz speeds due to the 33-MHz PCI Bus. NOTE: Please see the following Controller or SCSI Adapter QuickSpecs for Technical Specifications such as PCI Bus, PCI Peak Data Transfer Rate, SCSI Protocols supported, SCSI Peak Data Transfer Rate, Channels, SCSI Ports, Drives supported, Cache, RAID support, and additional information: http://www5.compaq.com/products/quickspecs/10851_div/10851_div.HTML (Smart Array 532) http://www5.compaq.com/products/quickspecs/10652_div/10652_div.HTML (RAID LC2) http://www5.compaq.com/products/quickspecs/10640_div/10640_div.HTML (Smart Array 5300 Series) http://www5.compaq.com/products/quickspecs/10429_div/10429_div.HTML (SCSI Adapter) http://www5.compaq.com/products/quickspecs/11555_div/11555_div.HTML (U320 Adapter)	284688-B21

Options

Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
	Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3134 and NC3131	138604-B21
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23
	Compaq NC6133 Gigabit Module 1000LX Upgrade Module for NC3134 and NC3131	338456-B24
	Compaq NC3133 Fast Ethernet Module 100FX Upgrade Module for NC3134 and NC3131	338456-B25
	Compaq NC7132 10/100/1000-T Upgrade Module for NC3134 and NC3131	153543-B21
	Compaq NC6136 Gigabit Server Adapter, 64-bit/66 MHz, PCI, 1000 SX	203539-B21
	Compaq NC7131 Gigabit Server Adapter, 64 bit/66 MHz PCI, 10/100/1000-T	158575-B21
	NOTE: Any NC31XX, NC61XX, or NC71XX NIC can be used for redundancy with the embedded NC3163 Network Controller.	

Management Options	Remote Insight Lights-Out Edition II (NA, LA)	227251-001
	Remote Insight Lights-Out Edition II (EMEA)	227251-021
	Remote Insight Lights-Out Edition II (ROW)	227251-371
	Compaq Remote Insight Lights-Out Edition (NA, LA)	157866-001
	Compaq Remote Insight Lights-Out Edition (EMEA)	157866-021
	Compaq Remote Insight Lights-Out Edition (ROW)	157866-371

Security	HP/Atalla AXL600L SSL Accelerator Card for ProLiant Servers	524545-B21
	Compaq AXL300 Accelerator PCI Card (HW SSL Encryption) for ProLiant Servers	227933-B21

Monitors	Essential Series	
	Compaq S9500 CRT Monitor (19-inch, Carbon/Silver)	261615-XXX
	Compaq S7500 CRT Monitor (17-inch, Carbon/Silver)	261606-XXX
	Compaq S5500 CRT Monitor (15-inch Carbon/Silver)	261602-XXX
	Compaq TFT1501 Flat Panel Monitor (15-inch, Carbon/Silver, North America)	301042-003
	Compaq TFT1501 Flat Panel Monitor (15-inch, Carbon/Silver, Outside North America)	P4825D-XXX
	Compaq TFT1701 Flat Panel Monitor (17-inch, Carbon/Silver, North America)	292847-003
	Compaq TFT1701 Flat Panel Monitor (17-inch, Carbon/Silver, Outside North America)	P9019A-XXX

Options

Advantage Series

Compaq V7550 CRT Color Monitor (17-inch, Carbon/Silver)	261611-XXX
Compaq TFT1720 Flat Panel Monitor (17-inch, Carbon/Silver, North America)	295926-003
Compaq TFT1720 Flat Panel Monitor (17-inch, Carbon/Silver, outside North America)	D5064D-XXX
Compaq FT1720M Flat Panel Monitor (17-inch, Carbon/Silver, includes speaker, USB port, headphone, North America)	301958-003
Compaq TFT1720M Flat Panel Monitor (17-inch, Carbon/Silver, includes speaker, USB port, headphone, outside North America)	D5064P-XXX
Compaq TFT1520 Flat Panel Monitor (15-inch, Carbon/Silver, North America)	295925-003
Compaq TFT1520 Flat Panel Monitor (15-inch, Carbon/Silver, outside North America)	D5063D-XXX
Compaq TFT1520M Flat Panel Monitor (15-inch, Carbon/Silver includes speaker, USB port, headphone, North America)	301957-003
Compaq TFT1520M Flat Panel Monitor (15-inch, Carbon/Silver includes speaker, USB port, headphone, outside North America)	D5063P-XXX

Performance Series

HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, North America)	302268-003
HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, Outside North America)	P909W-XXX
HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, North America)	302270-003
HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, Outside North America)	P4819-XXX
HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, North America)	303486-003
HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, Outside North America)	P9021W-XXX
HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, North America)	303102-003
HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, Outside North America)	P4831W-XXX
Compaq TFT1825 Flat Panel Monitor (18-inch, Carbon/Silver, North America)	296751-003
Compaq TFT1825 Flat Panel Monitor (18-inch, Carbon/Silver, Outside North America)	P9021A-XXX
Compaq TFT2025 Flat Panel Monitor (20-inch, Carbon/Silver, North America)	285550-003
Compaq TFT2025 Flat Panel Monitor (20-inch, Carbon/Silver, Outside North America)	P4831D-XXX

Rackmount Flat Panel Monitors

TFT5110R Flat Panel Monitor (Carbon) (1U rack mountable)	281683-B21
TFT5010R Flat Panel Monitor (NA) (2U rack mountable)	217248-001
TFT5010R Flat Panel Monitor (Int'l) (2U rack mountable)	217248-B31
TFT5010R Flat Panel Monitor (Japan) (2U rack mountable)	217248-291

Options

Tape Drives

External DAT Tape Drives

HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Carbon) (NA)	157770-002
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Int'l) (Carbon)	157770-B32
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Japan)(Carbon)	157770-292

NOTE: Please see the 20/40-GB DAT Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/10426_div/10426_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/10426_na/10426_na.html
(North America)

External AIT Tape Drives

HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon)	216885-001
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Int'l)	216885-B31
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Japan)	216885-291

NOTE: Please see the AIT 35 GB, LVD Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/10712_div/10712_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/10712_na/10712_na.html
(North America)

HP StorageWorks AIT 50-GB Tape Drive, External (Carbon) (NA)	157767-002
HP StorageWorks AIT 50-GB Tape Drive, External (Int'l) (Carbon)	157767-B32
HP StorageWorks AIT 50-GB Tape Drive, External (Japan) (Carbon)	157767-292
HP StorageWorks AIT 50GB Tape Drive, 3U Rackmount	274333-B21

NOTE: Please see the AIT 50-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/10425_div/10425_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/10425_na/10425_na.html
(North America)

HP StorageWorks External AIT 100-GB Tape Drive (Carbon)	249160-001
HP StorageWorks External AIT 100-GB Tape Drive (Carbon) (Int'l)	249160-B31

NOTE: Please see the AIT 100-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/11062_div/11062_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/11062_na/11062_na.html
(North America)

Options

External DLT/SDLT Tape Drives

HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (NA)	146197-B22
HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (Japan)	146197-293
HP StorageWorks Rackmount DLT 40/80, 3U (Single Drive)	274332-B21
HP StorageWorks Rackmount DLT 40/80, Dual Drive 3U (Two Drives)	274335-B21
HP StorageWorks Rackmount DLT 40/80, Tape Array III, 5U (Four Drives)	274337-B21

NOTE: Please see the [40/80-GB DLT Drive QuickSpecs](#) for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/10658_div/10658_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/10658_na/10658_na.html
(North America)

External DLT VS Tape Drives

HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (NA)	280129-B22
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (Int'l)	280129-B31
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (Japan)	280129-291

NOTE: Please see the [DLT VS 40/80 Tape Drive QuickSpecs](#) for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/11403_div/11403_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/11403_na/11403_na.html
(North America)

HP StorageWorks SDLT 160/320, External NA (carbon)	257319-001
HP StorageWorks SDLT 160/320, External WW (carbon)	257319-B31
HP StorageWorks SDLT 160/320, External Japan (carbon)	257319-291
HP StorageWorks Rackmount SDLT 110/220, 3U (Single Drive)	274331-B21
HP StorageWorks Rackmount SDLT 110/220, Dual-Drive, 3U (Two Drives)	274334-B21
HP StorageWorks Rackmount SDLT 110/220, Tape Array III, 5U (Four Drives)	274336-B21

NOTE: Please see the [SDLT 160/320-GB Tape Drive QuickSpecs](#) for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://www5.compaq.com/products/quickspecs/11406_div/11406_div.HTML
(Worldwide)

http://www5.compaq.com/products/quickspecs/11406_na/11406_na.HTML
(North America)

External SuperLoader

DLT1 1280 SuperLoader	268664-B21
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NOTE: Please see the [StorageWorks DLT1 1280 SuperLoader by Compaq QuickSpecs](#) for additional options and for an up-to-date listing of the latest O/S Support details, please see the following:

http://www5.compaq.com/products/quickspecs/11330_div/11330_div.HTML
(Worldwide)

http://www5.compaq.com/products/quickspecs/11330_na/11330_na.HTML
(North America)

Options

External LTO Ultrium Tape Drives

HP StorageWorks LTO Ultrium 230 Tape Drive, External (Carbon) NA	Q1516A
HP StorageWorks LTO Ultrium 230 Tape Drive, External (Carbon) Int'l	Q1517A

NOTE: Please see the HP StorageWorks LTO Ultrium Tape Drive QuickSpecs for additional options such as controllers, and other related items, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/11415_div/11415_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/11415_na/11415_na.html
(North America)

HP StorageWorks Ultrium 460 Tape Drive for ProLiant, External (Carbon) NA	Q1519A
HP StorageWorks Ultrium 460 Tape Drive for ProLiant, External (Carbon) Int'l	Q1520A

NOTE: Please see the HP StorageWorks Ultrium 460 Tape Drives for ProLiant QuickSpecs for additional options such as data and cleaning cartridges, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://h18006.www1.hp.com/products/quickspecs/11530_div/11530_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/11530_na/11530_na.html
(North America)

External DAT Autoloader

20/40-GB DAT 8 Cassette Autoloader External (Opal)	166505-001
20/40-GB DAT 8 Cassette Autoloader External (Opal) (Int'l)	166505-B31
20/40-GB DAT 8 Cassette Autoloader External (Opal) (Japan)	166505-291

NOTE: Please see the 20/40-GB DAT DDS-4 8 Cassette Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://www5.compaq.com/products/quickspecs/10518_div/10518_div.HTML
(Worldwide)

http://www5.compaq.com/products/quickspecs/10518_na/10518_na.HTML
(North America)

AIT Autoloader

HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (NA)	280349-001
HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (Int'l)	280349-B31

NOTE: Please see the AIT 35-GB Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

http://www5.compaq.com/products/quickspecs/11404_div/11404_div.HTML
(Worldwide)

http://www5.compaq.com/products/quickspecs/11404_na/11404_na.HTML
(North America)

HP StorageWorks 1/8 Autoloader

HP StorageWorks 1/8 Autoloader, Tabletop, Ultrium 230	C9572CB
HP StorageWorks 1/8 Autoloader, Tabletop, DLT VS80	C9264CB
HP StorageWorks 1/8 Autoloader, Rackmount kit	C9266R

Options

Rackmount Tape Drive Kits

3U Rackmount Kit 274338-B21

NOTE: The 3U Rackmount Kit (PN 274338-B21) can support up to (2) full-height or (4) half-height tape drives and compatible with multiple internal Single-Ended and LVD SCSI Tape Drives including the 12/24-GB DAT, 20/40-GB DAT, 20/40-GB DAT DDS-4 8 Cassette Autoloader, AIT 35-GB LVD, AIT 50 GB, AIT 100 GB, 20/40-GB DLT, 40/80-GB DLT, SDLT 110/220-GB, SDLT 160/320-GB, Ultrium 230, and Ultrium 460 Tape Drives.

5U Rackmount Kit 274339-B21

NOTE: The 5U Rackmount Kit (PN 274339-B21) can support up to (4) full-height tape drives and is compatible with all HP internal DLT/SDLT/Ultrium tape drives including the 20/40-GB DLT, 35/70-GB DLT, 40/80-GB DLT, SDLT 110/220-GB, SDLT 160/320, Ultrium 230, and Ultrium 460 tape drives.

NOTE: Please see the Rackmount Tape Drive Kits QuickSpecs for additional information regarding these kits, please see the following:

http://h18006.www1.hp.com/products/quickspecs/10854_div/10854_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/10854_na/10854_na.html
North America

Rackmount Tape Drive Cable Kits

LVD Cable Kit, VHDCI/HD68 168048-B21

NOTE: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.

LVD Cable Kit, HD68/HD68 242381-B21

NOTE: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.

Tape Automation

Entry Level Tape Libraries

SSL2020 Automated AIT Library

SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount 175196-B21

SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount 175196-B22

SSL2020 AIT Library Pass Thru with Transport 175312-B21

SSL2020 AIT Library Pass Thru Extender 175312-B22

AIT 50-GB Drive Add-On LVD Drive for SSL2020 AIT Library 175197-B21

Required Adapters/Controllers for SSL2020 AIT Library

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 129803-B21

SAN Access Module for Smart Array 5302 Controller 216687-B21

SAN Access Module for Smart Array 5302 Controller (Japan) 216687-291

NOTE: Please see the SSL2020 Automated AIT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:

http://www5.compaq.com/products/quickspecs/10580_na/10580_na.HTML
(North America)

http://www5.compaq.com/products/quickspecs/10580_div/10580_div.HTML
(Worldwide)

Options

External Storage - Rack	StorageWorks Enclosure Model 4314R (rack-mountable)	190209-001
	StorageWorks Enclosure Model 4314R (rack-mountable) (Int'l)	190209-B31
	StorageWorks Enclosure Model 4314R (rack-mountable) (Japan)	190209-291
	StorageWorks Enclosure Model 4354R (rack-mountable)	190211-001
	StorageWorks Enclosure Model 4354R (rack-mountable) (Int'l)	190211-B31
	StorageWorks Enclosure Model 4354R (rack-mountable) (Japan)	190211-291
	NOTE: The StorageWorks Enclosure 4300 Family support the Wide Ultra2/Ultra3 1" Hot Plug Hard Drives.	
	StorageWorks Enclosure 4200 Redundant Power Supply Option	119826-B21
	StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option	190212-B21
	StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option	190213-B21
StorageWorks Enclosure 4200 Tower to Rack Conversion Kit	150213-B21	
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MSA1000	MSA1000	201723-B22
	MSA1000 Controller	218231-B22
	MSA Fibre Channel I/O Module	218960-B21
	MSA1000 Fabric Switch	218232-B21
	MSA1000 Fibre Channel Adapter (FCA) 2101	245299-B21
	HP StorageWorks msa hub 2/3	286763-B21
	NOTE: Please see the StorageWorks Modular SAN Array 1000 QuickSpecs for additional options and configuration information at: http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide)	
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StorageWorks Modular Array 8000	MA8000 60Hz	175992-B21
	MA8000 50Hz	175992-B22
NOTE: Options include controller, solution kits, ACS. MA8000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000.		
NOTE: Please see the StorageWorks MA8000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10545_na/10545_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10545_div/10545_div.HTML (Worldwide)		
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StorageWorks Options	64-bit/66-MHz Fibre Channel Host Adapter	120186-B21
	NOTE: The 64-bit/66-Mhz Fibre Channel Host Adapter has been qualified for use with the Compaq RAID Array 4000 family of products, the Enterprise Backup Solution, and the RAID Array 8000 under NetWare.	
	64-bit/66-MHz Fibre Channel Host Adapter (Japan)	120186-291
NOTE: The 64-bit/66-Mhz Fibre Channel Host Adapter has been qualified for use with the Compaq RAID Array 4000 family of products, the Enterprise Backup Solution (EBS) offerings, and the RAID Array 8000 under NetWare.		
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Options

Compaq UPS Power Cord Reference Guide *Please see the [Compaq UPS Power Cord Reference Guide](#) that lists cable descriptions, requirements, and specifications for Compaq UPS units.*
<ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf>

UPS and PDU Power Cord Matrix *Please see the [UPS and PDU cable matrix](#) that lists cable descriptions, requirements, and specifications for UPS and PDU unit.*
<ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf>

Uninterruptible Power Systems	Compaq UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA)	204404-001
	Compaq UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l)	204404-B31
	Compaq UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan)	204404-291
	Compaq UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA)	192186-001
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA)	192186-002
	Compaq UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan)	192186-291
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan)	192186-292
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord)	192186-B31
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug)	192186-B32
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug)	192186-B33
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug)	192186-AR1
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA) NOTE: The UPS R6000 has a hardwired input.	347207-001
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Int'l) NOTE: The UPS R6000 has a hardwired input.	347207-B31
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Japan) NOTE: The UPS R6000 has a hardwired input.	347207-291
	UPS R12000 XR N+x (200-240V) (WW-hardwired) NOTE: The UPS R12000 XR has a hardwired input and output; requires a 100A circuit.	207552-B22

UPS Options	SNMP Serial Port Card	192189-B21
	NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	
	Six Port Card	192185-B21
	NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	
	High to Low Voltage Transformer (250VA)	388643-B21
	NOTE: Supports R6000 UPS series only. 2.5 amps @ 125 Volts max output across two NEMA 5-15.	
	Extended Runtime Module, R1500 XR	218971-B21
	NOTE: 2U each, two ERM maximum.	
	Extended Runtime Module, R3000 XR	192188-B21
	NOTE: 3U each, one ERM maximum.	
Extended Runtime Module, R6000	347224-B21	
NOTE: 3U each, two ERM maximum.		
Extended Runtime Module, R12000 XR, 4U	217800-B21	
NOTE: 4U each, two ERM maximum.		
SNMP-EN Adapter	347225-B21	
NOTE: Supports R6000 UPS series only.		

Options

Multi-Server UPS Card	123508-B21
NOTE: Supports R6000 UPS series only.	
Scalable UPS Card	123509-B21
NOTE: Supports R6000 UPS series only.	

Rack-Mountable PDU's – 1U/0U (Up to 12 Outlets) NOTE: 0U mounting brackets shipped with the unit (separate option kit for 1U mounting).	Compaq Power Distribution Unit-16A (200-240V) (WW)	207590-B21
	NOTE: The 16A PDU also connects to the high volt models of the UPS R3000 XR (need cable PN 340653-001 (NA)) and the UPS R6000 models. Cable PN 340653-001 required if connecting to UPS R3000 XR (192186-002 NA-High Volt model only).	
	Compaq Power Distribution Unit-32A (200-240V) (Int'l)	207590-B31
	Compaq Power Distribution Unit-40A (200-240V) (WW)	207590-B23
	NOTE: Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/10838_na/10838_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10838_div/10838_div.HTML (Worldwide)	

Modular PDUs 1U/0U (Up to 32 outlets) NOTE: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).	HP Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan)	252663-D71
	NOTE: This mPDU (252663-D71) may also be used to connect the low volt model of the UPS R3000 XR.	
	HP Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan)	252663-D72
	HP Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l)	252663-B31
	HP Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW)	252663-B21
	NOTE: This mPDU (252663-B21), 40A model has a hardwired input.	
	HP Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) (WW)	252663-B24
NOTE: This PDU has a detachable input power cord and allows for adaptability to country specific power requirements. This model may also be used with the high volt UPSs R3000 XR and R6000 For North America, need to order cable PN 340653-001.		
NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including shorter jumper cables and country specific power cords: http://h18000.www1.hp.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML (Worldwide)		

Options

PDU Options	Third Party Modular PDU Mounting Kit	310777-B21
	NOTE: This kit allows you to mount the Modular PDUs in racks other than the 9000/10000 Series racks (any racks using the standard 19" rail). For more details please refer the Modular PDU QuickSpecs.	
	4.5' IEC C 13 to IEC C14 PDU Jumper Cable (1 per pack)	142257-006
	4.5' IEC C 13 to IEC C14 PDU Jumper Cable (15 per pack)	142257-007

USB Options	USB Easy Access Keyboard (Carbonite/Silver)	DC168B#
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USB Easy Access Keyboard (Carbonite) Country Key Code

Dash #	Description	Dash #	Description
A2M	ICELAND	ABT	HE
AB0	TAWA	ABU	UK
AB1	KOR	ABV	ARA
AB2	PRC	ABX	FIN
AB6	FRA	ABY	DEN
AB7	GRK	ABZ	ITL
AB8	TURK	AC0	BEL
AB9	PORT	AC4	BRZ
ABA	US	ACB	RUSS
ABB	EURO	AKB	CZE
ABC	FCAN	AKC	HUNG
ABD	GR	AKD	POL
ABE	SP	AKL	THAI
ABF	FR	AKN	BHCSY
ABH	NL	AKR	SLOV
ABJ	Japan	ARK	ICELAND
ABM	LA	B15	KAZ
ABN	NOR	UUZ	SWISS
ABS	SW		

Rack Builder	Please see the Rack Builder for configuration assistance at http://www.compaq.com/rackbuilder/ .	
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ProLiant DL320 Deployment Options	Third Party Cabinet Rack Option	174574-B21
	Sliding Rails and Cable Management Solution Option	174575-B21
	Telco Rack Option	174576-B21

Options

HP Rack 10000 Series (Graphite Metallic)	HP Rack 10842 (42U, 800mm wide) – Pallet	257415-B21
	HP Rack 10842 (42U, 800mm wide) – Shock Pallet	257415-B22
	HP Rack 10647 (47U) – Pallet	245160-B21
	HP Rack 10647 (47U) – Crated	245160-B23
	HP Rack 10642 (42U) – Pallet	245161-B21
	HP Rack 10642 (42U) – Shock Pallet	245161-B22
	HP Rack 10642 (42U) – Crated	245161-B23
	HP Rack 10636 (36U) – Pallet	245162-B21
	HP Rack 10636 (36U) – Shock Pallet	245162-B22
	HP Rack 10636 (36U) – Crated	245162-B23
	HP Rack 10622 (22U) – Pallet	245163-B21
	HP Rack 10622 (22U) – Shock Pallet	245163-B22
	HP Rack 10622 (22U) – Crated	245163-B23
	HP Rack 10614 (14U) – Shock Pallet	292303-B22

NOTE: -B21 (pallet) used to ship empty racks shipped on a truck
 -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels)
 -B23 (crated) used for air shipments of empty racks

NOTE: It is mandatory to use a shock pallet in order to ship racks with equipment installed. Not all Compaq equipment is qualified to be shipped in the Rack 10000 series

NOTE: Please see the Rack 10000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

http://h18000.www1.hp.com/products/quickspecs/10995_div/10995_div.HTML
(Worldwide)

http://h18000.www1.hp.com/products/quickspecs/10995_na/10995_na.HTML
(North America)

NOTE: For additional information regarding Rack Cabinets, please see the following URL:

<http://h18000.www1.hp.com/products/servers/proliantstorage/racks/index.html>.

Rack 9000 Series (opal)	Rack 9136 (36U) – Pallet	120664-B21
	Rack 9136 (36U) – Shock Pallet	120664-B22
	Rack 9136 (36U) – Crated	120664-B23
	Rack 9122 (22U) – Pallet	120665-B21
	Rack 9122 (22U) – Shock Pallet	120665-B22
	Rack 9122 (22U) – Crated	120665-B23
	Rack 9842 (800mm wide, 42U) – Pallet	222192-B21

NOTE: –B21 (pallet) used to ship empty racks shipped on a truck
 –B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels)
 –B23 (crated) used for air shipments of empty racks

NOTE: Please see the Rack 9000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

http://h18000.www1.hp.com/products/quickspecs/10366_div/10366_div.HTML
(Worldwide)

http://h18000.www1.hp.com/products/quickspecs/10366_na/10366_na.HTML
(North America)

Options

NOTE: For additional information regarding Rack Cabinets, please see the following URL:
<http://h18000.www1.hp.com/products/servers/proliantstorage/racks/index.html>.

Rack Options for HP Rack 10000 Series	Rack Blanking Panels – Graphite (Multi)	253214-B26
	NOTE: Contains one each of 1U, 2U, 3U, and 4U panel.	
	Rack Blanking Panels – Graphite (1U)	253214-B21
	NOTE: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (1U).	
	Rack Blanking Panels – Graphite (2U)	253214-B22
	NOTE: The Rack Blanking Panels (PN 253214- B21) contains 10 each of (2U).	
	Rack Blanking Panels – Graphite (3U)	253214-B23
	NOTE: The Rack Blanking Panels (PN 253214- B21) contains 10 each of (3U).	
	Rack Blanking Panels – Graphite (4U)	253214-B24
	NOTE: The Rack Blanking Panels (PN 253214- B21) contains 10 each of (4U).	
	Rack Blanking Panels – Graphite (5U)	253214-B25
	NOTE: The Rack Blanking Panels (PN 253214- B21) contains 10 each of (5U).	
	600-mm Stabilizer Kit – Graphite	246107-B21
	800-mm Wide Stabilizer Kit (Graphite)	255488-B21
	NOTE: Supported by the Rack 10842 cabinet only.	
	Baying Kit for Rack 10000 series (Carbon)	248929-B21
	42U Side Panel – Graphite Metallic	246099-B21
	110 V Fan Kit (Graphite)	257413-B21
	NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 5-15P.	
	220 V Fan Kit (Graphite)	257414-B21
NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.		
36U Side Panel - Graphite Metallic (for 10636 Rack only)	246102-B21	
47U Side Panel - Graphite Metallic (for 10647 Rack only)	255486-B21	
9000/10000 Series Offset Baying Kit (42U)	248931-B21	
NOTE: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100-mm gap at the rear of the two racks.		
NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.compaq.com/rackoptions		

Options

Rack Options for Compaq Rack 9000 Series	Baying/Coupling Kit	120669-B21
	42U Side Panel	120670-B21
	NOTE: The 42U Side Panel (PN 120670-B21) supports the Compaq Rack 9142 and Compaq Rack 9842.	
	36U Side Panel	120671-B21
	NOTE: The 36U Side Panel (PN 120671-B21) supports the Compaq Rack 9136.	
	800-mm Stabilizer Option Kit (Opal)	234493-B21
	NOTE: The 800-mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.	
	600-mm Stabilizer Option Kit	120673-B21
	9142 Extension Kit	120679-B21
	NOTE: The 9142 Extension Kit (PN 120679-B21) supports the Compaq Rack 9142 only.	
	9142Split Rear Door (Opal)	254045-B21
	NOTE: The 9142 Split Rear Door (PN 254045-B21) supports the 600 mm wide, 42U 9000 series rack.	
	9136 Extension Kit	218216-B21
	9142 Short Rear Door	218217-B21
	NOTE: The 9142 Short Rear Door (PN 218217-B21) supports the Compaq Rack 9142 only.	
	9136 Short Rear Door	218218-B21
	Rack Blanking Panel (Multi)	169940-B21
	NOTE: Kit includes four panels in 1U, 2U, 4U, and 8U.	
	Rack Blanking Panels (1U)	189453-B21
	NOTE: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (1U).	
Rack Blanking Panels (2U)	189453-B22	
NOTE: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (2U).		
Rack Blanking Panels (3U)	189453-B23	
NOTE: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (3U).		
Rack Blanking Panels (4U)	189453-B24	
NOTE: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (4U).		
Rack Blanking Panels (5U)	189453-B25	
NOTE: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (5U).		
9000/10000 Series Offset Baying Kit (42U)	248931-B21	
NOTE: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.		
NOTE: For additional information regarding Rack Options, please see the following URL: http://www.compaq.com/rackoptions		

Rack Options for Compaq Rack 7000 Series	High Air Flow Rack Door Insert for the 7122 Rack	157847-B21
	High Air Flow Rack Door Insert for the 7142 Rack (single)	327281-B21
	High Air Flow Rack Door Insert for the 7142 Rack (6-pack)	327281-B22
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Rack Extension Kit for 7142	154392-B21
	NOTE: For additional information regarding Rack Options, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html .	

Options

Rack Options for Rack 7000, 9000 and 10000 Series	Monitor Utility Shelf- opal	303606-B21
	Ballast Option Kit	120672-B21
	Rack Rail Adapter Kit (25" depth)	120675-B21
	100 kg Sliding Shelf	234672-B21
	Monitor/Utility Shelf - Graphite	253449-B21
	Depth Adjustable Fixed Rail	332558-B21
	Cable Management D-Rings Kit	168233-B21
	Console Management Controller (CMC) Option Kit	203039-B21
	Console Management Controller (CMC) Sensors Option Kit	203039-B22
	Console Management Controller (CMC) Locking Option Kit	203039-B23
	Console Management Controller (CMC) Smoke Sensors Option Kit	203039-B24
	Server Console Switch 1 x 2 port (100-230 VAC)	120206-001
	Server Console Switch 1 x 2 port (100-230 VAC) (Int'l)	120206-B31
	Server Console Switch 1 x 2 port (100-230 VAC) (Japan)	120206-291
	Server Console Switch 1 x 4 port (100-230 VAC)	400336-001
	Server Console Switch 1 x 4 port (100-230 VAC) (Int'l)	400336-B31
	Server Console Switch 1 x 4 port (100-230 VAC) (Japan)	400336-291
	Server Console Switch 1 x 8 port (100-230 VAC)	400337-001
	Server Console Switch 1 x 8 port (100-230 VAC) (Int'l)	400337-B31
	Server Console Switch 1 x 8 port (100-230 VAC) (Japan)	400337-291
	Server Console Switch 2 x 8 port (100-230 VAC)	400338-001
	Server Console Switch 2 x 8 port (100-230 VAC) (Int'l)	400338-B31
	Server Console Switch 2 x 8 port (100-230 VAC) (Japan)	400338-291
	Server Console Switch 2 x 8 port (48VDC)	400542-B21
	IP Console Switch Box, 1x1x16	262585-B21
	IP Console Switch Box, 3x1x16	262586-B21
	IP Console Interface Adapter, 8 pack	262587-B21
	IP Console Interface Adapter, 1 pack	262588-B21
	IP Console Expansion Module	262589-B21
	KVM 9 PIN Adapter (4 Pack)	149361-B21
	CPU to Server Console Cable, 12'	110936-B21
	CPU to Server Console Cable, 20'	110936-B22
	CPU to Server Console Cable, 40'	110936-B23
	CPU to Server Console Cable, 3'	110936-B24
	CPU to Server Console Cable, 7'	110936-B25
	IP CAT5 Cable 3', 4 pack	263474-B21
	IP CAT5 Cable 6', 8 pack	263474-B22
	IP CAT5 Cable 12', 8 pack	263474-B23
	IP CAT5 Cable 20', 4 pack	263474-B24
	IP CAT5 Cable 40', 1 pack	263474-B25
Switch Box Connector Kit (115V)	144007-001	
Switch Box Connector Kit (230V)	144007-002	
Switch Box Connector Kit (high voltage)	144007-B33	
1U Rack Keyboard & Drawer (Carbon)	257054-xx1	

NOTE: The 1U Rack Keyboard & Drawer (PN 257054-xx1).

Country Code Key (for 1U Rack Keyboard & Drawer (PN 257054-xx1))

Options

XX = 001	US	XX = 091	Norway	
XX = 031	UK	XX = 101	Sweden/Finland	
XX = 041	Germany	XX = 111	Switzerland	
XX = 051	France	XX = 131	Portugal	
XX = 061	Italy	XX = 181	Belgium	
XX = 071	Spain	XX = 291	Japan	
XX = 081	Denmark	XX = B31	International	
TFT5600 Rack Keyboard Monitor				221546-xx1
Country Code Key (for TFT5600RKM 221546-xx1)				
XX = 001	US	XX = 091	Norway	
XX = 031	UK	XX = 101	Sweden/Finland	
XX = 041	Germany	XX = 111	Switzerland	
XX = 051	France	XX = 131	Portugal	
XX = 061	Italy	XX = 181	Belgium	
XX = 071	Spain	XX = 291	Japan	
XX = 081	Denmark	XX = B31	International	
PCI KVM Management Card Kit				232983-B21
Local Access Cable Kit				232984-B21
PCI KVM Remote Card Kit				232985-B21
Input Device Adjustable Rails				287139-B21
NOTE: Input Device Adjustable Rails (287139-B21) are for use with the TFT5110R, TFT5600RKM and integrated keyboard/drawer which is used in mounting into third party racks.				
Input Device Telco Rail				287138-B21
NOTE: Input Device Adjustable Rails (287138-B21) are for use ONLY with the TFT5110R, TFT5600RKM and integrated keyboard/drawer which is used in mounting into third party racks.				
Keyboard/Monitor/Mouse extension cables				169989-001
NOTE: For additional information regarding Rack Options, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html .				

Power Cords

NOTE: The Compaq ProLiant DL320 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S. & Japan models will ship with two power cords: IEC-IEC (142257-002) and North American C13-Nema 5-15P (103541-001) cords.				
Power Cord, Euro, 10A 250 V Straight (12 ft/3.7 m)				157215-021
Power Cord, UK, 10A 250 V Straight (12 ft/3.7 m)				157216-031
Power Cord, Danish, 10A 250 V Straight (12 ft/3.7 m)				157218-081
Power Cord, Swiss, 10A 250 V Straight (12 ft/3.7 m)				157219-111
Power Cord, Italian, 10A 250 V Straight (12 ft/3.7 m)				157217-061
Power Cord, South Africa, 10A 250 V Straight (12 ft/3.7 m)				157220-AR1

Options

Service and Support Offerings (HPCare Pack Services)

Hardware Services 4-Hour On-site Service

9 x 5 Coverage, 3 Years (6-3 Part Number for U.S.)	162676-002
9 x 5 Coverage, 3 Years (6-3 Part Number for EMEA)	324416-022
24 x 7 Coverage, 3 Years (6-3 Part Number for U.S.)	162675-002
24 x 7 Coverage, 3 Years (6-3 Part Number for EMEA)	376910-022

Hardware Services Next Business Day On-Site Service

9 x 5 Next Business Day Coverage, 3 Years (6-3 Part Number for U.S.)	102407-002
9 x 5 Next Business Day Coverage, 3 Years (6-3 Part Number for EMEA)	206947-022

Installation & Start-up Services

Hardware Installation (6-3 Part Number for US)	401791-002
Server Installation and Set-Up (Installation of the server, installation of the appropriate service tools, check to ensure device SW and firmware is loaded and installation of the operating system software (6-3 Part Number for EMEA)	204563-022
Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Win NT Operating System plus up to 1 day start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240013-002
Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Novell® NetWare Operating System plus up to 1 day start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240008-002

HP Care Pack Priority Services for ProLiant Servers – Priority Level

9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239928-002
9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239968-002
9 x 5 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for EMEA)	179834-022

HP Care Pack Priority Services for ProLiant Servers – Priority 24 Level

24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239930-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239970-002
7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (6-3 Part Number for EMEA)	179839-022

Options

CarePaq Priority Services for ProLiant Servers – Priority Silver

24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck per year (6-3 Part Number for U.S.)	239932-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239934-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part Number for U.S.)	239972-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239974-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck per year (2-5-2 Part Number for Canada)	FM-M04E1-36
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M24E1-36
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (2-5-2 Part Number for Canada)	FM-N04E1-36
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada)	FM-N24E1-36

NOTE: For more information, customer/resellers can contact:

<http://www.compaq.com/services>

Memory

Compaq ProLiant DL320 All Models

Standard Memory

128-MB PC 133-MHz Registered ECC SDRAM DIMM installed (1 x 128-MB SDRAM DIMM)

Standard Memory Plus Optional Memory

Up to 1664-MB memory is available with the optional installation of PC 133-MHz Registered ECC SDRAM DIMM memory kits.

Standard Memory Replaced with Optional Memory

Up to 2048-MB of memory is available with the removal of the standard 128-MB of memory and the optional installation of PC133-MHz Registered ECC SDRAM DIMM memory kits.

NOTE: Chart does not represent all possible configurations.

Memory		Slot			
		1	2	3	4
Standard	128 MB	128 MB	Empty	Empty	Empty
Optional	1664 MB	128 MB	512 MB	512 MB	512 MB
Maximum	2048 MB	512 MB	512 MB	512 MB	512 MB

Following are memory options available from Compaq:

- 512-MB (PC133-MHz) Registered ECC SDRAM DIMM Memory Option Kit 128279-B21
- 256-MB (PC133-MHz) Registered ECC SDRAM DIMM Memory Option Kit 128278-B21
- 128-MB (PC133-MHz) Registered ECC SDRAM DIMM Memory Option Kit 128277-B21

Storage



0 - 1	Two 3.5" x 1" ATA or SCSI non-hot plug drive bays
A	Removable CD-ROM/Diskette Drive Assembly

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	A	Integrated
Low-profile IDE (ATAPI) CD-ROM Drive	Up to 1	A	Integrated IDE (ATAPI)
Low-profile IDE DVD-ROM Drive	Up to 1	A	Integrated IDE

Hard Drives

Ultra320 Non-Hot Plug Drives

	Quantity Supported	Position Supported	Controller
1-inch 36.4-GB 10,000 rpm	Up to 2	0-1	Integrated Single Channel Wide Ultra2 Controller Module (SCSI Models) Compaq RAID LC2 Controller Smart Array 532 Controller Smart Array 5304/128 Controller Smart Array 5304/256 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter

NOTE: All U320 Universal Hard Drives are backward compatible to U2 or U3 speeds. U320 drives require an optional U320 Smart Array Controller or U320 SCSI HBA to support U320 transfer rates.

ATA/100 Non-Hot Plug Drives

	Quantity Supported	Position Supported	Controller
1-inch 80-GB 7,200 rpm 40-GB 7,200 rpm	Up to 2	0-1	Integrated Ultra ATA/100 Controller Module (ATA Models) 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter

External Storage

	Quantity Supported	Position Supported	Controller
StorageWorks Enclosure 4300 Family (supports Ultra2/Ultra3 drives only)	Up to 1	External	Smart Array 532 Controller Smart Array 5302/128 Controller Smart Array 5304/256 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter

Storage

Maximum Storage Capacity – (StorageWorks Enclosure 4300 with SCSI models)

Internal	72.8 GB (2 x 36.4 GB Wide Ultra3 1")
External	509.6 GB (1 x (14 x 36.4-GB 1" Ultra320 Drives))
Total	582.4 GB

Maximum Storage Capacity – (StorageWorks Enclosure 4300 with ATA models)

Internal	80 GB (2 x 40 GB 1" ATA/100)
External	509.6 GB (1 x (14 x 36.4-GB 1" Ultra320 Drives))
Total	589.6 GB

Tape Drives (External only supported)

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:

http://www5.compaq.com/products/quickspecs/North_America/10233.html (North America)

<http://www5.compaq.com/products/quickspecs/Division/10233.html> (Worldwide)

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Storage Systems listed below, please see the following:

http://www5.compaq.com/products/quickspecs/North_America/10809.html (North America)

<http://www5.compaq.com/products/quickspecs/Division/10809.html> (Worldwide)

	Quantity Supported	Position Supported	Controller
20/40-GB DAT 8 Cassette Autoloader	Up to 4	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
AIT 35-GB LVD Tape Drive	Up to 3 (for AIT 35 GB)	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
AIT 100-GB Tape Drive AIT 50-GB Tape Drive	Up to 2 (for AIT 100 GB, AIT 50 GB)	External	64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
HP StorageWorks AIT 35 GB Autoloader	Up to 1 (for a single HBA) Up to 2 (for a dual HBA)	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
SDLT 110/220-GB, External	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
External 40/80-GB DLT Enhanced	Up to 3	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
SSL2020 AIT Library	Up to 5	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
DLT1 1280 SuperLoader	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter

TechSpecs

System Unit	Dimensions (HxWxD)	1.67 x 16.75 x 21.5 in (4.24 x 42.55 x 54.6 cm)	
	Weight	24.58 lb (11.15 kg)	
	Fully configured with two hard drives, four DIMM modules, and a PCI expansion board		
Input Requirements	Rated Input Voltage	100 to 120 VAC/200 to 240 VAC	
	Nominal Line Voltage	100 to 120 VAC/220 to 240 VAC	
	Rated Input Current	2A (100 to 120 VAC) to 1A (200 to 240 VAC)	
	Rated Input Frequency	50 to 60 Hz	
	Rated Input Power	200 W	
BTU Rating	682 BTUs/hr		
	NOTE: The BTU Rating listed is for the Rated Input Power of 200W.		
Power Supply Output	Steady State Power	180 W (rated)	
	NOTE: The maximum expected steady state.		
	Maximum Peak Power	200 W (2 minutes)	
 Environmental Operating			
Operating	Ambient Temperature	50° to 95° F (10° to 35° C)	
	Temperature Derating	1.8° F per 984.25 ft to 9,842.5 ft (1.8° C per 300 m to 3000 m)	
	Relative Humidity	10% to 90% (non-condensing)	
	Maximum wet bulb temperature	82° F (28° C)	
Non-operating Storage	Temperature	-4° to 140° F (-20 to 60° C)	
	Relative Humidity	10% to 95%	
	Maximum wet bulb temperature	84° F/29° C	
Non-operating Shipping	Temperature	-40° to 140° F/-40 to 60° C	
	Relative Humidity	10% to 90%	
	Maximum wet bulb temperature	86° F (30° C)	
Acoustic Noise	Idle	L WAd (BELS)	6.1
	(Fixed Disk Drives Spinning)	L pAm (dBA)	54.1
	Operating	L WAd (BELS)	6.2
	(Random Seeks to Fixed Disks)	L pAm (dBA)	52

TechSpecs

1.44-MB Diskette Drive	Size	3.5 in (8.89 cm)
	LED Indicators (front panel)	Green
	Read/Write Capacity per Diskette (high/mid/low density)	1.44 MB/1.2 MB/720 KB formatted
	Drive Supported	One
	Drive Height	0.50 in/1.27 cm
	Drive Rotation	300-360/300 rpm
	Transfer Rate Synchronous (Maximum) (high/mid/low)	500/500/250 K b/s
	Bytes/Sector	512
	Sectors/Track (high/low)	18/9
	Tracks/Side (high/low)	80/80
	Access Times	Track-to-Track (high/mid/low) 3/3/6 ms
		Average (high/mid/low) 174/94/94 ms
		Settling Time 15 ms
		Latency Average 83/100 ms
	Cylinders (high/low)	80/80
	Read/Write Heads	Two

Non-Hot Plug Wide Ultra3 SCSI Hard Drives	18.2 GB 10K 142674-B21	Capacity	18209.3 MB
		Height	1 in (2.54 cm)
		Width	4 in (10.16 cm)
		Interface	Wide Ultra3 SCSI
		Transfer Rate Synchronous (Maximum)	160 MB/s
		Seek Time (typical reads, including setting)	Single Track 0.7 ms
			Average 5.4 ms
			Full-Stroke 11 ms
			Rotational Speed 10,000 rpm
		Physical Configuration Logical Blocks	35,565,080
		Operating Temperature	50° to 95° F (10° to 35° C)

TechSpecs

**Non-Hot Plug
ATA/100 Hard Drives** **40 GB 7.2K**
230534-B21

Capacity	40027 MB
Height	1 in (2.54 cm)
Width	4 in (10.16 cm)
Interface	ATA 100
Transfer Rate	100 MB/s
Synchronous (Maximum)	
Seek Time	Single Track 0.8 ms
(typical reads, including setting)	Average 8.5 ms
	Full-Stroke 17.8 ms
	Rotational Speed 7,200 rpm
Physical Configuration	Bytes/Sector 512
	Logical Blocks 78,177,792
Operating Temperature	41° to 131° F (5° to 55° C)

Power Supply	Input Voltage Specifications	Rated input voltage	100 VAC to 240 VAC
		Rated input line	180 VAC to 264VAC (90 VAC to 132 VAC)
		Frequency range	47 to 63 Hz
		Rated input power	298 W
		Rated input current	3.3 A, 1.7 A (110 V, 220 V)
		Steady state power	180W
	Relative Humidity (non-condensing)	Maximum peak power	200W for 2 minutes
		Ambient temperature range	
		Operating	41° to 122° F (5° to 50° C)
		Non-operating	-40° to 185° F (-40° to 85° C)
		Operating	5% to 95%
		Non-operating	5% to 95%
		Dielectric Voltage Withstand	Input to Output
Input to Ground	1,500 VAC/min		
Maximum Wet Bulb Temperature		82° F (28° C)	

TechSpecs

Low-Profile 24X Max IDE (ATAPI) CD-ROM Drive	Disk	Applicable Disk	CD-DA, CD-ROM (Mode 1 and 2) CD-XA, CD-I (Mode 2, Form 1 and 2) CD-I Ready, CD Extra, Video CD, CD-Bridge Photo CD (Single and Multi-session) CD-WO
		Capacity	550 MB (Mode 1, 12 cm) 640 MB (Mode 2, 12 cm)
		Diameter	4.7 x 3.15 in/12 x 8 cm
		Rotational Speed	4200 rpm maximum
		Center Hole	0.6 in/15 mm diameter
		Thickness	1.2 mm
		Track Pitch	1.6 µm
	Block Size	Mode 0	2,368, 2,352 bytes
		Mode 1	2,352, 2,340, 2,336, 2,048 bytes
		Mode 2	2,352, 2,340, 2,336, 2,048 bytes
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random	< 150 ms
		Full-Stroke	< 350 ms
	Data Transfer Rate	Sustained	150 KB/s (sustained 1X)
		Burst	2100 to 4800 KB/s
	Cache Buffer	128 KB	
	Start-up Time (typical)	< 10 seconds	
	Stop Time	< 5 seconds	
	Operating Conditions	Temperature	41° to 118° F (5° to 45° C)
		Humidity	10% to 80%
Dimensions	(HxWxD, maximum)	0.5 x 5.16 x 5.12 in (1.27 x 13.1 x 13 cm)	
	Weight	< 11.98 oz (< 340 g)	

Two Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)	Network Interface	10Base-T/100Base-TX	
	Compatibility	IEEE 802.3/802.3u compliant	
	Data Transfer Method	32-bit bus-master PCI	
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s
		10Base-TX (Full-Duplex)	20 Mb/s
		100Base-T (Half-Duplex)	100 Mb/s
		100Base-T (Full-Duplex)	200 Mb/s
	Connector	RJ-45	
Cable Support	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
	100Base-TX	Category 5 UTP; up to 328 ft (100 m)	

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Video Controller	Controller Chip	WATI RAGE XL	
	Video DRAM	8 MB Video SDRAM	
	Data Transfer Method	32-bit PCI	
	Support Resolution		Supported Color Depths:
		640 x 480	16.7M, 64K, 256, 16
		800 x 600	16.7M, 64K, 256, 16
		1024 x 768	16.7M, 64K, 256, 16
	1152 x 864	16.7M, 64K, 256, 16	
	1280 x 1024	16.7M, 64K, 256, 16	
	1600 x 1200	64K, 256, 16	
	Connector	VGA	

Integrated Single Channel Wide Ultra2 SCSI Controller Module	Drives Supported	p to 2 SCSI devices (internal bays only)	
	Data Transfer Method	64-bit PCI bus-master	
	SCSI Channel Transfer Rate	80 MB/s per channel	
	Maximum Transfer Rate per PCI Bus (peak)	133 MB/s	
	SCSI Protocols	Wide Ultra2 SCSI	
	Electrical Protocol	Low Voltage Differential (LVD) & Single Ended	
	SCSI Termination	Passive Termination	
	External SCSI Connectors	None	
	Internal SCSI Connectors	One 68-pin Wide-Ultra SCSI-3 connectors	

Integrated Ultra ATA/100 Controller Module	Temperature Range	Operating	32° to 158° F (0° to 70° C)
		Shipping	-40° to 257° F (-40° to 125° C)
	Relative Humidity (non-condensing)	Operating	10% to 90%
		Non-operating	5% to 95%
	Simultaneous drive transfer channels	2 channels	
	Transfer rate synchronous (maximum)	100 B/s	
	Data Transfer Method	32-bit PCI bus-master	
	Drive Support	Ultra ATA, EIDE & Fast ATA-2	
	PCI bus transfer rate (maximum)	133 MB/s	
	Data transfer modes Protocol	PIO Modes 5/4/3/2/1/0 & UDMA Modes 4/3/2/1/0	
Feature	ATA100 compatible		
Buffer size	CRC (Cyclical Redundancy Check)		
	128 Byte		

TechSpecs

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